PATENT COOPERATION TREATY

From the		IAL SEARCHIN	IG AUTHORT	TY	ANS.				
To:							PCT PCT		
					INTER		ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY		
							(PCT Rule 43bis.1)		
					Date of mailing (day/month/year)				
Applica	nt's or a	gent's file referenc	ce		FOR FURTHER ACTION				
05F	052-	-PCT			See paragraph 2 below				
Internat	ional ap	plication No.		International filing date	(day/month/year,)	Priority date (day/month/year)		
PCT	/JP2	2006/301	489	30.01.2006			10.02.2005		
Internat	ional Pa	tent Classification	(IPC) or both	national classification ar	nd IPC				
Applica	nt								
SAN	KEN	ELECTRIC	c co.,	LTD.					
1.	This o	ninian santains is	diantiana ralati	ing to the following item	at .				
1.		Box No. I			Si.				
			Basis of the c	opinion					
	H	Box No. II Box No. III	Priority	h			us step and industrial applicability		
	Ħ	Box No. IV			gard to noverty,	invenii	ve step and industrial applicability		
			•	of invention tement under Rule 43 <i>bis</i>	s.1(a)(i) with regard to novelty, inventive step or industrial				
Box No. V Reasoned statement under Rule 4361s.1(a)(1) applicability; citations and explanations supp									
	님	Box No. VI	Certain docu	ments cited .					
	H	Box No. VII	Certain defec	ats in the international ap	plication				
	Ш	Box No. VIII	Certain obser	rvations on the internation	onal application				
2.	FUR1	THER ACTION							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.									
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.									
		rther options, see	-	-	÷ ,		-		
3. For further details, see notes to Form PCT/ISA/220.									
Name o	nd mail	ng address of the	ISA/IP	Date of completion	of this opinion	Ainh	prized officer		
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L						T-1	shana No		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/301489

Воз	k No. I	Basis of this opinion	
1.	Witl	h regard to the language, this opinion has been established on the basis of:	
	\boxtimes	the international application in the language in which it was filed	
		the translation of the international application into	, which is the language of a
		translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	
2.		h regard to any nucleotide and/or amino acid sequence disclosed in the internationantion, this opinion has been established on the basis of:	al application and necessary to the claimed
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b.	format of material	
		on paper	
		in electronic form	
	c.	time of filing/furnishing	
		contained in the international application as filed	
		filed together with the international application in electronic form	
		furnished subsequently to this Authority for the purposes of search	
	_		
3.		In addition, in the case that more than one version or copy of a sequence listing and/ furnished, the required statements that the information in the subsequent or additional c filed or does not go beyond the application as filed, as appropriate, were furnished.	
4.	Add	itional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/301489

Box		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement			•			
	Novelty (N)	Claims	1-11	YES			
		Claims		NO.			
	Inventive step (IS)		1-11	YES			
		Claims		NO			
	Industrial applicability (IA)	Claims	1-11	YES			
		Claims		NO			

2. Citations and explanations:

Regarding claims 1 to 11

Document 1 (JP 2004-363327 A) and document 2 (JP 2004-221370 A) cited in the ISR do not describe a point regarding "a first region is formed occupying a first proportion with respect to the third semiconductor region to the second semiconductor region at a central side of the semiconductor substrate, wherein a second region, which occupies a second proportion greater than the first proportion with respect to the third semiconductor region to the second semiconductor region, is formed at an outer peripheral side of the semiconductor substrate so as to surround the first region" as in claim 1 of the present application; a point regarding "a third semiconductor region is formed such that a proportion occupying the second semiconductor region thereof along a first direction has a peripheral portion larger than a central portion of the semiconductor substrate and a proportion occupying the second semiconductor region of the third semiconductor region is formed along a second direction orthogonal to the first direction such that a peripheral portion is larger than a central portion of the semiconductor substrate" as in claim 7; a point regarding "the insulating film is provided with a first region having a first thickness formed in a central region of the semiconductor substrate and a second region formed having a second thickness that is thinner than the first region and is formed at a peripheral side of the semiconductor substrate so as to surround the first region" as in claim 10; or a point regarding "the second semiconductor region is provided with a first region formed having a first impurity concentration at a central side of the semiconductor substrate and a second region formed having a second impurity concentration that is lower than the first impurity concentration and that is formed at a peripheral side of the semiconductor substrate so as to surround the first region" as in claim 11, and the inventions of the claims of the present application can be considered to involve novelty and inventive step.